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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/272,069	03/18/1999	DAVID I.J. GLEN	0100.9900340	5165

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VEDDER PRICE KAUFMAN & KAMMHOLZ  
222 N. LASALLE STREET  
CHICAGO, IL 60601

EXAMINER

HARRISON, CHANTE E

ART UNIT PAPER NUMBER

2672

DATE MAILED: 02/06/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

09/272,069

Applicant(s)

GLEN, DAVID I.J. *DB*

Examiner

Chante Harrison

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 12 December 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☐ Claim(s) 1-6,8,9 and 20-22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☐ Claim(s) 1-6,8,9 and 20-22 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_ 6) ☐ Other: \_\_\_\_\_

**DETAILED ACTION**

1. This action is responsive to communications: RCE, filed on 12/12/02.
2. Claims 1-6, 8-9 and 20-22 are pending in the case. Claims 1, 6, 8-9 and 20-22 are independent claims. Claims 1, 6 and 8-9 have been amended. Claims 20-22 have been added.

***Claim Rejections - 35 USC § 112***

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
2. The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
3. Claim 8 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Applicants claim of "a selection block [that] receives selection signals" is inconsistent with the claimed subject matter and renders claim 8 indefinite.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application

by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claims 1-6, 8-9 and 20-22 are rejected under 35 U.S.C. 102(e) as being anticipated by Benjamin Clifton et al., U.S. Patent 6,388,648, 5/2002.

As per independent claim 1, Clifton discloses a plurality of lookup tables (col. 10, ll. 24) each table provides a set of output data in response to received input (col. 10, ll. 24-27) and a selector that receive the set of output data and automatically selects the set of output data corresponding to one of the plurality of lookup tables (col. 10, ll. 21-27), the automatic selection of the set of output data is based on gamma selection information (col. 10, ll. 21-24).

As per dependent claim 2, Clifton discloses the tables include a pass through function that provides the received input data as the set of output data (Fig. 8).

As per dependent claim 3, Clifton discloses each of the plurality of tables stores a plurality of set of output data (col. 10, ll. 24-27), each set of output data corresponds to a gamma correction curve for a corresponding gamma value of the plurality of gamma values (col. 10, ll. 24-27, 35-40), the correction curve maps values of the received input to output values (Fig. 7).

As per dependent claim 4, Clifton discloses pixel data is provided as received input to each of the gamma correction tables (col. 10, ll. 23-26), the table selector comprising a multiplexor that receives the sets of output data from the plurality of

gamma correction lookup tables (col. 10, ll. 20-27), a set of output data is selected based on the gamma selection (col. 10, ll. 24-27). It is inherent that the table selector comprises a multiplexor because the selector is disclosed as a controller comprising circuitry that performs a selective function, which a multiplexor is well known to perform.

As per dependent claim 5, Clifton discloses the gamma correction tables are memory structures addressed by the received input data (col. 10, ll. 23-27).

As per independent claim 6, Clifton discloses the tables storing plural gamma correction curves (col.10, ll. 25-27), the plurality of sets of gamma corrected data includes data for each of the plurality of correction curves (col.10, ll. 25-28; Fig. 7). The rationale as applied in the rejection as of independent claim 1 applies herein.

As per independent claim 8, Clifton discloses a first portion of the input signals select a portion of the plurality of gamma correction curves (col. 10, ll. 20-24) and a second portion of the input signals selects the plurality of gamma corrected data sets from the plurality of gamma correction curves (col. 10, ll. 16-20). The rationale as applied in the rejection of claim 6 applies herein.

As per independent claim 9, Clifton discloses storing a plurality of precomputed gamma corrected data sets corresponding to gamma curves (col. 10, ll. 24-27, 35-

40;Fig. 7), the means for selecting operably coupled to the means for storing (Fig. 8), selecting a curve from the plurality of correction curves (col. 10, ll. 20-27) and position information that selects gamma corrected data set at a corresponding position on the selected curve (Fig. 7; col. 10, ll. 24-27, 35-40).

As per independent claim 20, Clifton discloses a frame buffer storing display information (Fig. 2), a gamma correction block coupled to the frame buffer (col. 10, ll. 16-20), storing a plurality of sets of precomputed gamma corrected data (col. 10, ll. 23-27), the gamma correction block receiving the display information and gamma selection information (col. 10, ll. 21-27), and providing gamma corrected data in response to the display information from a gamma correction curve selected by the gamma selection information (col. 10, ll. 25-28), and a digital to analog converter coupled to the gamma correction block (Fig. 8), the DAC receives the gamma corrected data and generates an analog display signal (col. 10, ll. 27-28).

As per independent claim 21, Clifton discloses a video graphic processor operably coupled to the frame buffer and generates at least a portion of the display information stored in the frame buffer (Fig. 2). The rationale as applied in the rejection of claim 20 applies herein.

As per independent claim 22, Clifton discloses receiving pixel information (col. 10, ll. 24), selecting a set of gamma corrected data from a plurality of sets of

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precomputed gamma corrected data based on pixel and gamma selection information (col. 10, ll. 21-27), the plurality of gamma corrected data corresponding to a plurality of gamma correction curves (col. 10, ll. 24-27, 35-40; Fig. 7) and converting the set of gamma corrected data from a digital format to a portion of an analog display signal (Fig. 8; col. 10, ll. 27-29).

### ***Response to Arguments***

1. Applicant's arguments with respect to claims 1-6 and 8-9 have been considered but are moot in view of the new ground(s) of rejection.

**Conclusion**

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Chante Harrison whose telephone number is (703) 305-3937.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi, can be reached at (703) 305-4713.

**Any response to this action should be mailed to:**

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

**or faxed to:**


(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Ch

February 3, 2003



**MICHAEL RAZAVI**  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2600